

Abstract

AN ION EXCHANGE SYSTEM WITH COMPACTED MEDIA  
DURING OPERATION AND REGENERATION  
5           PROCESSES USING U-TUBE PRINCIPLE

This invention is a liquid separation system using ion exchange resin,  
adsorbent resin and catalytic resin based on U-tube principle. It is shown  
that relatively low fluid velocity is sufficient to maintain the resin bed in  
10 compacted state during the operation as well as during the regeneration  
processes so that high quality product, low regenerant consumption, and  
convenient operation are obtained.